	Application No.	Applicant(s)
Notice of Allowability	10/808,795	MARAKHTANOV ET AL.
	Examiner	Art Unit
	David Vu	2828
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>applicant's filing date</u>	of 03/24/04.	
2. The allowed claim(s) is/are <u>1-41</u> .		
3. $\square$ The drawings filed on $\_\_\_$ are accepted by the Examine	r.	
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority ur</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> <li>2. ☐ Certified copies of the priority documents have</li> <li>3. ☐ Copies of the certified copies of the priority do</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Application	on No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file IENT of this application.	e a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6.  CORRECTED DRAWINGS ( as "replacement sheets") must (a)  including changes required by the Notice of Draftspers 1)  hereto or 2)  to Paper No./Mail Date (b)  including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the paper No./Mail Date	son's Patent Drawing Revie s Amendment / Comment o .84(c)) should be written on t he header according to 37 Cl	r in the Office action of he drawings in the front (not the back) of FR 1.121(d).
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>	sit of BIOLOGICAL MAT FOR THE DEPOSIT OF BI	ERIAL must be submitted. Note the OLOGICAL MATERIAL.
<ul> <li>Attachment(s)</li> <li>1.  Notice of References Cited (PTO-892)</li> <li>2.  Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3.  Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 12/09/2004</li> <li>4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. ☐ Interview S Paper No. 98), 7. ⊠ Examiner's	uformal Patent Application (PTO-152) ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowance
		David Vu Primary Examiner Art Unit: 2828

Application/Control Number: 10/808,795 Page 2

Art Unit: 2828

## **EXAMINER'S AMENDMENT**

1. The information disclosure statement filed 12/09/2004 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered. The document by Lieberman et al is missing.

2. The following is an examiner's statement of reasons for allowance: the prior art does not teach or disclose a method and device for controlling plasma processing in a plasma processing chamber comprising, in combination with the remaining features of the claims, a computing device configured to compute an ion energy distribution function from a first voltage value and peak low frequency RF voltage (VLFRF(PEAK)) in accordance with

$$f(E) = (dV_{LF}/dt)^{-1}$$

wherein

$$V_{LF}(t) = [((V_{LFRF(PEAK)} - V_{dc})/2)^{1/2} - ((V_{LFRF(PEAK)} - V_{dc})/8)^{1/2} \sin \omega t]^2$$

 $V_{\mathsf{LFRF}(\mathsf{PEAK})}$  is peak low frequency RF voltage value.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Vu whose telephone number is (571) 272-1831. The examiner can normally be reached on M-F 8am-430pm.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David Vu

Primary Examiner Art Unit 2828 Page 3

dν